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### Faculty Achievements, March 2014

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## ACADEMIC AFFAIRS/DEPARTMENT OF EDUCATION

**WENDY R. SHERMAN HECKLER**, Associate VPAA and Dean, University Programs

*Books, Book Chapters, and Journal Articles (peer reviewed)*

Sherman Heckler, W. (2014). Research on student learning in science: A Wittgensteinian perspective. In M. R. Matthews (Ed.), *International handbook of research in history, philosophy and science teaching*, 1381-1410. Dordrecht, Netherlands: Springer.

<http://www.springer.com/education+%26+language/book/978-94-007-7653-1>

*External Grants and Fellowships - Primary Investigator*

*OP2: Operation Physics for Central Ohio Middle School Teachers, 2014-2015*. Funded as part of the Ohio Board of Regents Improving Teacher Quality grants program for \$108,733. Wendy Sherman Heckler and David Robertson, co-P.I.s, 2014-2015.

*Presentations and Posters*

Sherman Heckler, W., Robertson, D., Reber, D., Richards, K., and Christy, J. (2014, January).

*OP2 activities for interpreting and communicating science*. Workshop presented at the annual meeting of the Science Education Council of Ohio, Columbus, OH.

## DEPARTMENT OF ART

**NICHOLAS A. HILL**, Professor

*Artistic Exhibits and Performances*

"The Kyoto Calligraphy Lessons," a solo exhibition of 25 large-scale cyanotypes, University of Redlands Art Gallery, Redlands, California, November-December 2013.

"Ohio +5" Ohio Border Biennial 2013 Exhibition, cyanotype print exhibited, Athens, Ohio, October- November 2013.

Birger Sandzen Memorial Gallery Invitational Exhibition, Bethany College, intaglio print exhibited, Lindsborg, Kansas, December-January.

*Community Outreach/ Service Learning*

Presentation on portfolio presentation to IB art class at Dublin Coffman High School, January 2014.

*Presentations and Posters*

Visiting Artist, Redlands University, Redlands California, three-day, artist-in-residence including a series of lectures, presentations and gallery talks for faculty and students, November 2013.

*Service/Leadership in the Profession*

Member of the Board of Trustees of the Greater Columbus Arts Council, serving on the Governance Committee and the Grants Committee.

## DEPARTMENT OF BIOLOGY AND EARTH SCIENCE

**SARAH S. BOUCHARD**, Associate Professor

*Presentations and Posters*

Young, R., Perry, S.L., Jennings, K.X., Rodriguez, W.B., and S.S. Bouchard. January 2014. Compensatory growth in larval American Toads. Annual Meeting of the Society of Integrative and Comparative Biology, Austin, TX.

Rodriguez, W. B., Jennings, K.X., Bouchard, S.S. and K.M. Warkentin. January 2014. Competition-induced gut length plasticity, food intake and growth in Red-eyed treefrogs. Annual Meeting of the Society of Integrative and Comparative Biology, Austin, TX.

## DEPARTMENT OF BUSINESS, ACCOUNTING AND ECONOMICS

**KYRIACOS C. ARISTOTELOUS**, Professor

*Books, Book Chapters, and Journal Articles (peer reviewed)*

"Economic Liberalization and Economic Degradation," *International Journal of Ecology and Development*, January 2014, Vol. 27, No. 1, 64-76

**SHIRINE L. MAFI**, Professor

*Presentations and Posters*

Mafi, S. and Shraim, M. (2014). ISO Implementation in an Engineering/IT firm. 2014 ASQ World Conference on Quality and Improvement, Dallas, Texas.

## **DEPARTMENT OF COMMUNICATION**

**SUSAN P. MILLSAP**,

*Presentations and Posters*

Millsap, S. (Nov. 2013) "Connecting Small Colleges to Communities We Serve for Survival." Presenter and Panel Chair at the National Communication Association National Convention, Washington, D.C.

## **COMMUNITY ENGAGEMENT**

**JOHN L. KENGLA**, Senior Instructor

*Community Outreach/ Service Learning*

Columbus City Schools for Ubuntu Mentoring and Leadership, which conducts weekly group mentoring sessions led by Otterbein students for 11th and 12th grade Linden-McKinley and Mifflin high school students to develop character, define college aspirations, and learn college access pathways. John has received funding for mentoring programs he has led for 10 consecutive years. \$8,000 grant.

## **COURTRIGHT MEMORIAL LIBRARY**

**JESSICA CROSSFIELD MCINTOSH**, Reference Services

Coordinator and Assistant Professor

*Presentations and Posters*

"LinGO: How iLead Ohio Influenced Team Collaboration and Discovery for Patrons," Association of College and Research Libraries Ohio Chapter (ALAO) Annual Conference presentation, October 25, 2013. (with co-presenters David Green [Ohionet], Kirsten Krumsee [State Library of Ohio], Julie Zaveloff, and Derek Zoladz [Columbus State Community College].

"LinGO: A Project Overview," iLead State Board of Ohio presentation, October 24, 2013.

(with co-presenters David Green [Ohionet], Kirsten Krumsee [State Library of Ohio], Julie Zaveloff, and Derek Zoladz [Columbus State Community College].

**JANE H. WU**, Systems Librarian and Associate Professor

*Grant Participant*

"Science, Culture, and Modernity in Chengdu, China." Faculty Collaborative International Enrichment Grant Otterbein 2013-2014, \$11,820

"Bridging the Gaps: a Case Study of International Asian Students at Otterbein" FDC Grant Otterbein 2013-2014, \$600

*Presentations and Posters*

"Advance Learning and Services through Collaboration and Integration with non-Academic Units and non-Departmental Programs on Campus", American Library Association Ohio Chapter (ALAO) Annual Conference presentation October 25, 2013.

## **DEPARTMENT OF EDUCATION**

**PAUL J. WENDEL**, Assistant Professor

*External Grants and Fellowships - Primary Investigator*

Opening Doors: A Wider Examination of Stem Teaching and Learning, Culture and Support At Otterbein University 2013-15.

National Science Foundation \$241,254 NSF award # 1347243

Co-PIs: Joan Esson, Kathryn Plank, Paul Wendel, and Anna Young

NSF WIDER: Widening Implementation and Demonstration of Evidence-Based Reforms. This WIDER Planning project examines teaching, learning, and co-curricular practices among underclass STEM majors at Otterbein University and the contextual factors that influence their use. This information will be used to drive strategic reforms to Otterbein's STEM programs to improve student learning and retention in STEM fields.

### *Presentations and Posters*

Wendel, P. J., Ramasamy, S., Liang, B., Ford, W., Wiest, L., Stauffer, T., Drake, B., Sepiol, J. (2013, October 27). Effect of shale gas drilling on groundwater quality, Tioga County, Pennsylvania. Poster presentation at the Geological Society of America Annual Meeting, Denver, CO.

Wendel, P. J., Ramasamy, S., Liang, B., Ford, W., Stauffer, T., Wiest, L., Drake, B., Sepiol, J. (2013, June 19). Shale gas drilling and groundwater quality in northern Pennsylvania. Presentation at the National Ground Water Association Ohio Groundwater Forum, Columbus, OH.

### **DEPARTMENT OF ENGLISH**

**NORMAN R. CHANEY**, Professor

#### *Publications and Essays (non-peer reviewed)*

Presentation of invited paper to The Richard Jefferies Society, "Richard Jefferies: The Nature Writer as Innocent Adam," Swindon, England, 2 March 2013.

**TERRENCE A. HERMSEN**, Associate Professor  
*Books, Book Chapters, and Journal Articles (peer reviewed)*

"The Assessment Wicket: How Can We Judge the Value of Writers Teaching in the Schools?" in *Creative Writing in the Community: A Guide*. Terry Ann Thaxton, ed. New York: Bloomsbury, 2013.

#### *External Grants and Fellowships - Primary Investigator*

\$3500 from the El Consejo Nacional de la Cultura y las Artes in Punta Arenas, Chile, to produce a translation of Chilean poet Christian Formoso's award-winning volume of poems, "El cementerio más hermoso de Chile."

#### *Presentations and Posters*

"Clues for the Labyrinth: Poetry, Metaphor and the Workings of the Mind" at the University of Rome. Invited lecture to faculty and first-year graduate students. March 2013.

### *Published Reviews, Teaching Applications, and Essays*

"Tanning Bed" in *Everything Stops and Listens*, an anthology of Ohio poets. Steve Abbott, ed., Columbus: Ohio Poetry Association, 2013.

"Age Warps," "Fractal Walk" and "Mark Rothko, 'Red Maroons'" in *The Ides of March: An Anthology*. Hannah Stephenson, ed. Columbus: Columbus Creative Cooperative, 2013.

**SHANNON K. LAKANEN**, Associate Professor  
*Artistic Exhibits and Performances*

Invited Literary Reading: "Coming in from the Rails" at Paging Columbus: *Wandering*, OSU Urban Arts Space, November 2013.

#### *External Grants and Fellowships*

Visiting Professor. Duksung Women's University. Seoul, S Korea. June-July 2013.

### **DEPARTMENT OF HEALTH AND SPORT SCIENCES**

**PAUL D. LONGENECKER**, Senior Instructor  
*Community Outreach/ Service Learning*  
Westerville Public Library Foundation, Board of Trustees

#### *Presentations and Posters*

Co-Presenter (invited), "Utilization of Team-based Self-Study for Exploring the Scholarship of Teaching and Learning", The 33rd Annual International Lilly Conference on College Teaching, Miami University, Oxford, OH, November 24, 2013.

Presenter (invited), "Business Ethics: The Impact on Hospice Professionals", Oklahoma Hospice and Palliative Care Association 2013 Annual Conference, Tulsa, OK; October 23, 2013.

Presenter (invited), "The Role of Leadership in Maximizing Ethical Hospice Care by Volunteers", Oklahoma Hospice and Palliative Care Association 2013 Annual Conference, Tulsa, OK. October 23, 2013.

#### *Service/Leadership in the Profession*

The Patient Experience Journal, Reviewer  
Journal of Healthcare Management, Reviewer

National Hospice and Palliative Care  
Organization, Research Committee Member  
National Council of Hospice Professionals,  
Research/Academic/Education Section  
Steering Committee Member

**SHELLEY S. PAYNE**, Assistant Professor  
*Books, Book Chapters, and Journal Articles (peer reviewed)*

Payne, S. Rundquist, P., Gahimer, J., and Harper, W. Self-directed learning readiness and self-determination for selected rehabilitation professional students: the impact of clinical education. *International Journal of Self-Directed Learning*. Volume 10, Number 1, Spring 2013, pages 35-42.

*Presentations and Posters*

Payne S. "Self-directed learning readiness and academic motivation development in undergraduate health profession students." Platform presentation for the 2014 International Self-Directed Learning Symposium. Cocoa Beach, Florida. February 2014.

*Service/Leadership in the Profession*

Member of the Editorial Board for the *International Journal of Self-Directed Learning*; Sub-Chair, Ohio Athletic Trainers' Association Research and Grants Subcommittee

**ANN-CATHERINE SULLIVAN**, Professor  
*Community Outreach/ Service Learning*  
American Heart Association Instructor and Instructor Trainer 2012-present  
America Red Cross Instructor and Instructor Trainer "present"

*Faculty Scholars Development Committee*

*Awards*

Sullivan, A.C. (2013). Qualitative Research Data Analysis Software. Otterbein University. Faculty Scholarship Development Committee Grant. \$670.00 Awarded.

*Presentations and Posters*

Sullivan, A.C., Maeda, J., Randall, L., and Bechtel, P. (2014). The induction process for new PETE faculty: What you don't learn in graduate school!. Presented on January 5,

2014 at the Hawaii International Conference on Education 2014. Honolulu, Hawaii.

Sullivan, A.C. and Berkowitz, R.J. (2014). Pedometer step counts in high school multiple disability classrooms. Presented on 1/5/2014 at the Hawaii International Conference on Education 2014. Honolulu, Hawaii.

Sullivan, A.C., Laux, A. and Braun, R. (2013). Attitudes of college students and same-age public school students with identified disabilities participating in a fitness program on a college campus. Presented research poster presentation for the Ohio Association for Health, Physical Education, Recreation and Dance Annual Conference, Sandusky, OH, December 5, 2013.

Sullivan, A.C., McClenathan, J., Martin, C., Keith, C., and Montoya, J. (2013). Hula hooping around. Presented for the Ohio Association for Health, Physical Education, Recreation and Dance Annual Conference, Sandusky OH, December 4-6, 2013.

Sullivan, A.C., Montoya, J. (2013). Using sport education model in summer camp. Presented for the Ohio Association for Health, Physical Education, Recreation and Dance Annual Conference, Sandusky, OH, December 4-6, 2013.

Sullivan, A.C., and Berkowitz, R. (2013). Best of both worlds collaborative university/public school workout buddy program. Presented at the National Consortium for Physical Education for Individuals with Disabilities Annual Conference, Herdon, VA, July 12, 2013.

*Published Reviews, Teaching Applications, and Essays*

Sullivan, A.C., Maeda, J., Randall, L., and Bechtel, P. (2014). The induction process for new PETE faculty: What you don't learn in graduate school!. Hawaii. International Conference on Education 2014. Honolulu, Hawaii.

Sullivan, A.C. and Berkowitz, R.J. (2014). Pedometer step counts in high school multiple disability classrooms. Accepted to

the Hawaii International Conference on Education 2014. Honolulu, Hawaii.  
*Service/Leadership in the Profession*  
 edTPA scorer for Pearson Education 2013-present  
 Secretary and Board of Directors for National Consortium for Physical Education and Recreation for Individuals with Disabilities 2013-present  
 Editorial Review Board The Physical Educator 2011-present

## DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

**JONATHAN F. DECOSTER**, Assistant Professor  
*Presentations and Posters*

"Conquered by Indians: Spanish Precedent and the Early Colonization of North America," Sixteenth-Century Society Conference, San Juan, Puerto Rico, October 24, 2013.

**ALICE WIEMERS**, Assistant Professor  
*External Grants and Fellowships*

2013-14 Visiting Fellow, Kellogg Institute for International Studies, Notre Dame University (year-long residential fellowship)

*Presentations and Posters*

"Citizenship in 'A Time of Agric': Rethinking the Failure of Agricultural Programs in Northern Ghana, 1966-1984," presented at the African Studies Association Annual Meeting, Baltimore, MD, 21-24 November 2013.

"Development, Authority, and Family in a Northern Ghanaian Town, 1942-2012," seminar presentation at the Kellogg Institute for International Studies, Notre Dame University, 23 January 2014.

"'Capitals of the Poor': Spaces of Poverty and Poverty Reduction in Northern Ghana, 1942-2012," to be presented at "The History of Poverty in Africa: A Central Question?," Columbia University, 6-7 March 2014.

## DEPARTMENT OF MATHEMATICAL SCIENCES

**WILLIAM V. HARPER**, Professor

*Books, Book Chapters, and Journal Articles (peer reviewed)*

Harper, William V., and Neil A. Bates, "Reduced Major Axis Regression to Improve Oil and Gas Pipeline Integrity", JSM Proceedings, Session Number 375, Montreal, Canada: American Statistical Association, August 2013.

Eschenbach, Ted G., Harper, William V., "Modeling Rare Events: Using A Fixed/Variable Rate Model For An Arctic Oil Spill Rate Example", Engineering Management Journal, June 2013, Volume 25, Issue 2.

Payne, Shelley and Peter Rundquist, William V. Harper, Julie Gahimer, "Self-Directed Learning Readiness And Self-Determination For Selected Rehabilitation Professional Students: The Impact Of Clinical Education", International Society for Self-Directed Learning, 2014.

William V. Harper with Steven J. Polasik, Sean Keane, Tom Bubenik, Quantifying The Impact Of Assumptions On Predicted Burst Pressure Assessments, International Pipeline Conference, Calgary, Canada, 2014.

William V. Harper with Joseph P. Bratton, Mitch Glass, Edgar Cote, Andy Gallagher, Fitness-For-Service Of Unconstrained Shallow Dents, International Pipeline Conference, Calgary, Canada, 2014.

William V Harper with Tom Bubenik, Pam Moreno, Steven Polasik, Determining Reassessment Intervals From Successive In-Line Inspections, International Pipeline Conference, Calgary, Canada, 2014.

Harper, William V., Reduced Major Axis Regression: Teaching Alternatives to Least Squares, International Conference on the Teaching of Statistics, Flagstaff, AZ, 2014

*Community Outreach/Service Learning*

Harper, William V., "Uncertainty â€“Statistically (or Predicting Unpredictable Events)", invited presentation Columbus Technical Societies, 2013.

Harper, William V., "Alternatives to Least Squares Regression", Ross Labs, December, 2013.

Harper, William V., MathCounts Proctor trainer, Franklin County, February 2014.

Harper, William V., MathCounts Proctor trainer, State of Ohio, March 2014.

*Service/Leadership in the Profession*

Harper, William V., Designated media expert for the American Statistical Association providing quick feedback on quantitative issues that may range from business issues to geophysical spatial concerns.

Harper, William V., Editor, Journal of Environmental Statistics

## DEPARTMENT OF MUSIC

**GAYLE A. WALKER**, Professor

*Artistic Exhibits and Performances*

Guest Conductor, The Ohio Capital Conference High School Honor Choir, November 2013.

Guest Conductor, Fulton County Honor Choir, January 2014.

*Books, Book Chapters, and Journal Articles (peer reviewed)*

"Into Intonation: Guidelines For Singing In Tune." Triad, October/November 2013.

*Presentations and Posters*

"INTO Intonation: Prepare Your Choir To Sing In Tune." Ohio Music Education Association Conference, February, 2014.

*Sabbatical Abstracts*

For this sabbatical project, Dr. Gayle Walker composed "Beyond the Years," a three-movement work for SATB chorus on the poetry of Dayton native Paul Lawrence Dunbar. Dr. Walker will conduct the work with the Otterbein College Concert Choir on their concert March 9, 2014 at Church of the Master. The choir will also perform the work on their Spring '14 tour to Chicago.

*Service/Leadership in the Profession*

President-Elect, Central Division of the American Choral Directors Association.

## DEPARTMENT OF NURSING

**JACQUELINE J. HAVERKAMP**, Assistant Professor

*Presentations and Posters*

American Association of Colleges of Nursing Doctoral Education Conference in Naples, Florida on 1/31/2014. Podium presentation topic: "Beyond Academic Evidence: Innovative uses of Technology within e-Portfolios to Achieve Learner-Centered Outcomes in a Doctor of Nursing Practice Program"

## DEPARTMENT OF PHYSICS

**NATHANIEL J. TAGG**, Associate Professor

*Books, Book Chapters, and Journal Articles (peer reviewed)*

Results from the Daya Bay Reactor Neutrino Experiment By K.V. Tsang, F.P. An, Q. An, J.Z. Bai, A.B. Balantekin, H.R. Band, W. Beriguete, M. Bishai et al.  
10.1016/j.nuclphysbps.2013.10.059.  
Nucl.Phys.Proc.Suppl. 246-247 (2014) 18-22.

Measurement of Muon Neutrino Quasi-Elastic Scattering on a Hydrocarbon Target at  $E_{\nu} \sim 3.5$  GeV By MINERvA Collaboration (G.A. Fiorentini et al.).  
arXiv:1305.2243 [hep-ex].  
10.1103/PhysRevLett.111.022502.  
Phys.Rev.Lett. 111 (2013) 022502.

Measurement of Muon Antineutrino Quasi-Elastic Scattering on a Hydrocarbon Target at  $E_{\nu} \sim 3.5$  GeV By MINERvA Collaboration (L. Fields et al.).  
arXiv:1305.2234 [hep-ex].  
10.1103/PhysRevLett.111.022501.  
Phys.Rev.Lett. 111 (2013) 022501.

Measurement of Neutrino and Antineutrino Oscillations Using Beam and Atmospheric Data in MINOS By MINOS Collaboration (P. Adamson et al.). arXiv:1304.6335 [hep-ex].  
10.1103/PhysRevLett.110.251801.  
Phys.Rev.Lett. 110 (2013) 251801.

A search for flavor-changing non-standard neutrino interactions by MINOS By MINOS Collaboration (P. Adamson et al.).  
arXiv:1303.5314 [hep-ex].

10.1103/PhysRevD.88.072011. Phys.Rev.  
D88 (2013) 072011.

Electron neutrino and antineutrino appearance  
in the full MINOS data sample 125 By MINOS  
Collaboration (P. Adamson et al.).

arXiv:1301.4581 [hep-ex].

10.1103/PhysRevLett.110.171801.

Phys.Rev.Lett. 110 (2013) 17, 171801.

Comparisons of annual modulations in MINOS  
with the event rate modulation in CoGeNT  
By MINOS Collaboration (P. Adamson et al.).

arXiv:1212.1776 [hep-ex].

10.1103/PhysRevD.87.032005. Phys.Rev.  
D87 (2013) 3, 032005.

Improved Measurement of Electron

Antineutrino Disappearance at Daya Bay By  
Daya Bay Collaboration (F.P. An et al.).

arXiv:1210.6327 [hep-ex]. 10.1088/1674-  
1137/37/1/011001. Chin.Phys. C37 (2013)  
011001.

#### *Grant Participant*

Neutrino Experiments (NSF Research in  
Undergraduate Institutions) \$47,722 in FY14  
for Dr. Nathaniel Tagg, Physics. \$137,006  
(total award exp. 2013-16)

#### *Service/Leadership in the Profession*

I bid to join the MicroBooNE experimental  
collaboration. Otterbein is now a full  
participating institution on the experiment.  
MicroBooNE is developing a liquid argon  
time projection chamber to measure  
neutrino-nucleus interactions in the  
Fermilab Booster neutrino beam. We have  
responsibilities on the experiment to  
develop online monitoring systems and data  
visualization tools.

## **DEPARTMENT OF THEATRE AND DANCE**

**DANA L. WHITE**, Professor

*Artistic Exhibits and Performances*

Lighting Design. "33 Variations"- Purple Rose  
Theatre, Chelsea, MI, March 2014.

Lighting Design. "The Vast Difference"- Purple  
Rose Theatre, Chelsea, MI, September 2014.



## EXTERNAL GRANTS – OFFICE OF SPONSORED PROGRAMS

**Melissa Gilbert**, Associate Dean, Experiential Learning and Community Engagement

*The Women's Fund of Central Ohio (\$20,000)*

The Otterbein Women's Leadership Network, known in the community as "The NET," provides a stream of educational, networking, and transformational leadership opportunities for girls, university students, and women community leaders. We will mobilize over 500 participants and 55 organizations in our network through intergenerational opportunities. NET participants will develop a deeper understanding of how to navigate obstacles to their success while cultivating specific leadership skills necessary for their futures.

**Melissa Gilbert**, Associate Dean, Experiential Learning and Community Engagement

**Shirine Mafi**, Business, Accounting, and Economics Department

**Patricia Hohlbein**, Business, Accounting, and Economics Department

*Ohio Campus Compact (\$10,000)* Students enrolled in one of four courses in Integrative Studies, Non-Profit Management, and Business Management will engage in the study and practice of philanthropy. Through experiences with nonprofit organizations in LiCking County, Otterbein students will be able to identify nonprofit practices and mission and analyze the financial limitations of the nonprofit model. Each course will award funds to exemplary nonprofit practices.

**Wendy Sherman Heckler**, Associate Vice-President for Academic Affairs

**David Robertson**, Chair and Associate Professor, Physics

*Ohio Board of Regents (\$108,733)* The goal of Operation Physics is to develop an understanding of basic physics among teachers of students in grades 4-9. Teachers will enroll in 9 quarter credit hours (5 semester hours) of graduate coursework through Otterbein University that will provide them with sequences of inquiry activities, demonstrations, readings, and outside projects to be completed with their students. Teachers will learn to recognize and challenge some naive ideas in order to inspire student interest in physics concepts, encourage problem-solving, and improve student learning in areas of physical science specified in Ohio's Academic Content Standards. Teacher participants will receive approximately 90-100 hours of instruction between the summer of 2013 and spring of 2014.